ABSTRACT OF THE DISCLOSURE

A system and method for simultaneously filling or discharging a plurality of acetylene cylinders. One embodiment provides an acetylene cylinder filling/dispensing assembly comprising a manifold connected to a plurality of acetylene cylinders for simultaneously filling or discharging the plurality of acetylene cylinders, the manifold having an acetylene gas inlet/discharge coupling connectable to an acetylene gas supply to deliver acetylene gas from the acetylene gas supply to the plurality of acetylene cylinders.